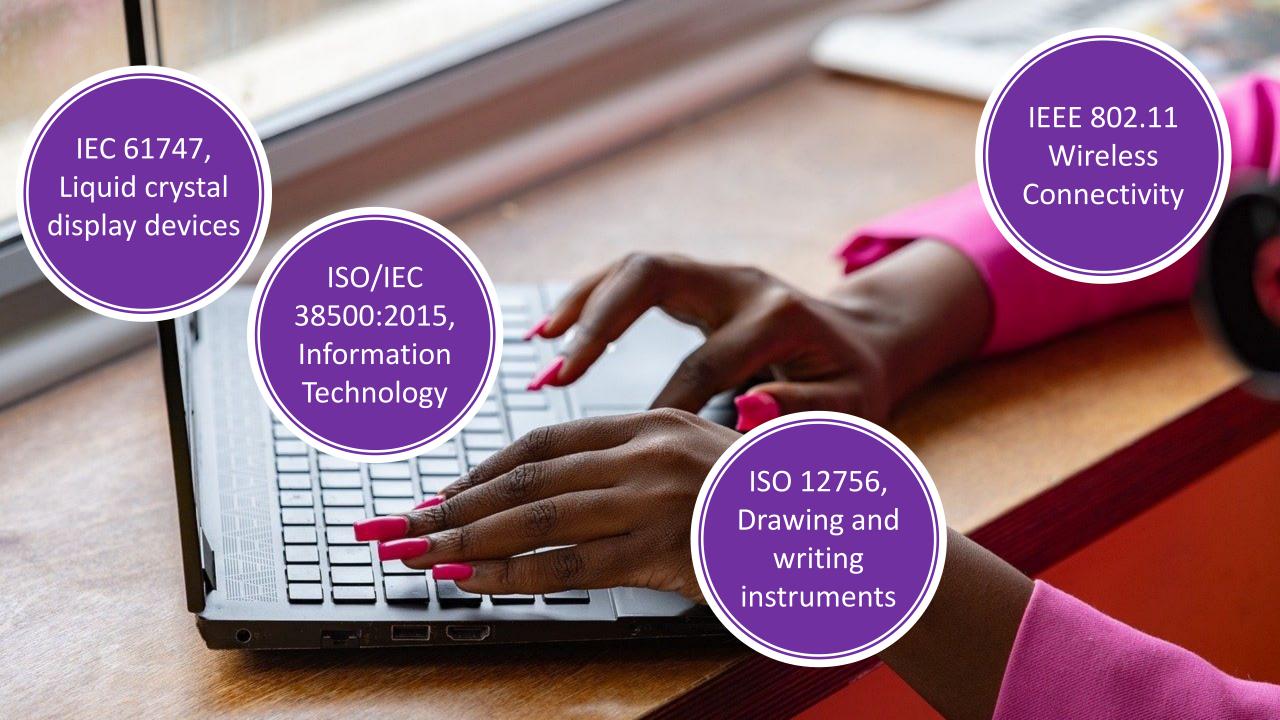
U.S. GOVERNMENT NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGY (USG NSSCET)

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Standards Participation Models





Participatio

National

One country, one vote

Multilateral and treaty-based









National delegation private organizations





Participati

Direct

Individual or organizational participation

Multi-stakeholder and membership-based











Structure, participation, and process can vary

Often formed to create standards in a focused area quickly



A GLOBAL INITIATIVE





I E T F





Standards "System" Comparison





Voluntary, decentralized and market-driven Led by private sector

- Public-private partnership
- Differs from centralized standards systems in other countries
- Reflects U.S. culture and publicprivate sector dynamics
- Relies on cooperation, communication and parity among diverse stakeholder
- ANSI is the private sector coordinator of many U.S. domiciled standards organizations and the U.S. member to ISO and IEC



• European of mandates standards

objectives

European Commission (EC)
mandates the development of EN
standards to support regulatory

• European Economic Area (EEA)

- National Standards Bodies (NSBs) are voting members for EC requests made to the European Standards Organizations (ESOs)
- Agreements between ESOs and ISO and IEC result in ISO and IEC standards routinely used as the basis of EN standards
- EU regulatory system gives a presumption of conformity to EN standards
- EU member states are individual members of ISO, IEC, and ITU



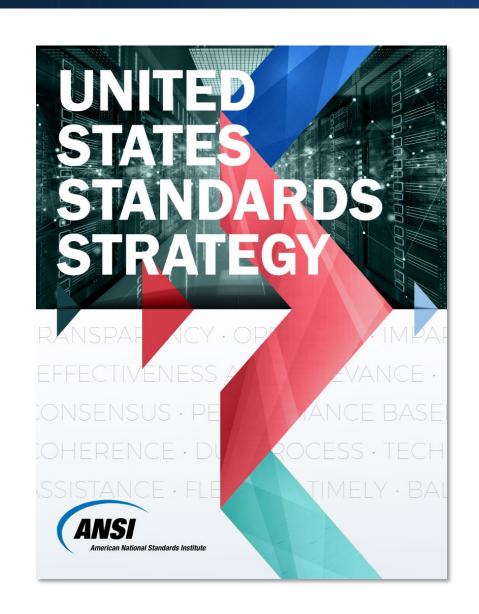
Central government organized by the Standards Administration of China (SAC) Developing a tiered standards system National Standards (SAC) Sector Standards (SAC Coordinated) Local Standards (SAC Coordinated)

China 2035 Initiative

- Launched in March 2018
- Developed by SAC
- Research standardization strategies to inform PRC's strategy
- Focused on PRC national standards for priority areas
- Increase PRC private sector standards development
- Increase PRC participation and leadership in international standards

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)





The USSS sets a strategic vision to support **U.S. competitiveness, innovation, health and safety, and global trade,** guiding how the U.S. develops and uses standards, and participates in the international standards development process.

The U.S. standards system is based on a publicprivate partnership and embraces the participation of all affected stakeholders, making it dynamic, flexible, and responsive to market needs.

U.S. LEADERSHIP IN STANDARDS FOR CET



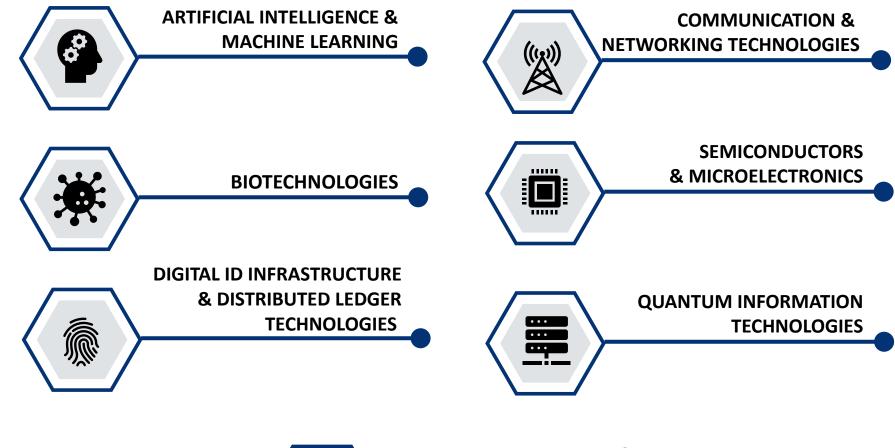


The U.S. Government National Standards Strategy for Critical and Emerging Technology (USG NSSCET) supports the development of federal standards policy to ensure continued U.S. global economy competitiveness and technology leadership

Working with other Departments and Agencies, NIST leads the implementation of the Strategy

CRITICAL & EMERGING TECHNOLOGY IDENTIFIED IN THE USG NSSCET







RENEWABLE ENERGY GENERATION & STORAGE

USG NSSCET OVERVIEW



Greater Investment in Pre-Standardization Research

- Increase R&D funding for CETs
- Support development of standards that address risk, security, and resilience

Participation in Standards Development

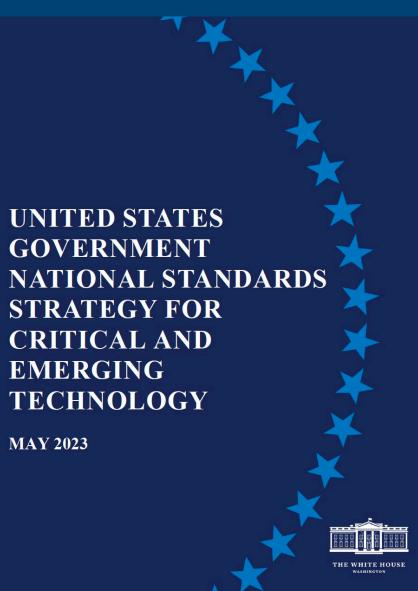
- Remove and prevent barriers to private sector participation
- Improve communication between public and private sector
- Enhance USG representation and influence in international standards governance and leadership

Workforce Development

Ensuring Integrity in Standards Development

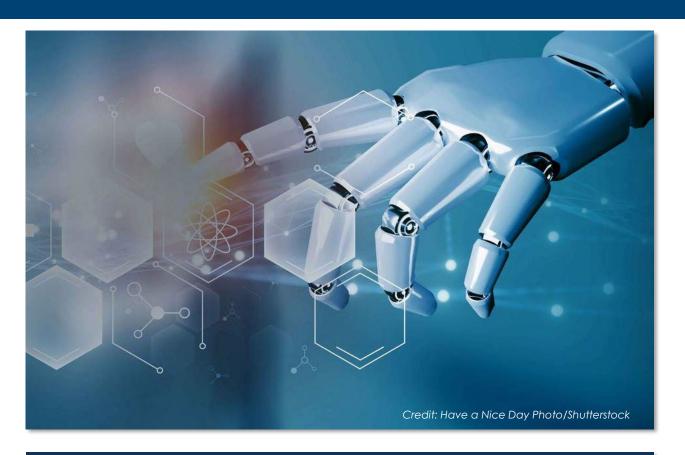
- Deepen standards cooperation with partners and allies
- Facilitate broad representation in standards development

View the Strategy: www.nist.gov/standardsgov/usg-nss



IMPLEMENTATION PLANNING: STAKEHOLDER INPUT





The U.S. Government National Standards Strategy for Critical and Emerging Technology (USG NSSCET) was released in May 2023

Published a request for Information (RFI)

- Input on how to best implement the Strategy
- Input on investment, participation, workforce, and integrity, and inclusivity
- Responses submitted by December 22, 2023

Held listening sessions and stakeholder engagements

100+ events

Established a Subcommittee on U.S. International Standards Development Activity

 Under the NIST Visiting Committee on Advanced Technology

INNOVATION STAKEHOLDERS



U.S. leadership in the U.S. innovation ecosystem requires collaboration among a diverse set of participants.



KEY FINDINGS: RFI AND LISTENING SESSIONS



Public-private sector coordination

- work effectively in consortia and communities of practice
- develop and promote adoption of sector-specific standards including those critical to national security, public safety, security, health and environmental health and resilience

Federal Government coordination

- coordinate pre-standardization R&D investments
- coordinate activities, proposals, leadership opportunities, and engagement
- support the integrity of the international standards system
- promote WTO TBT Committee principles

Foreign government coordination

- work with likeminded partners and allies to ensure CET standards are developed to support U.S. interests
- advocate for a commitment to free and fair market competition
- advance trade policy and agreements that are technology neutrality and promote technology adoption

Standards funding opportunities

• target academia and small- and medium-sized enterprises (SMEs)

KEY FINDINGS: RFI AND LISTENING SESSIONS



Standards education

- enhance educational efforts and leverage academia as a critical partner to increasing U.S. engagement and training the next generation of standards professionals
- renew a commitment by academia to teaching the value and use of standards in a range of career fields

Standards communications

- explain the role of U.S. government and academia in our system
- provide education and awareness for senior leaders in industry, government, and academia
- understand the value of our system with regards to competitiveness and innovation in a range of career fields
- engage a wide range of market participants in standards efforts
- engage Congress to bolster support for R&D in CET and increase investment in pre-standardization research

Real and perceived barriers

- reduce visa wait times
- identify and eliminate knowledge gaps between U.S. policymakers and technical program leaders
- enhance government participation where government is the member (e.g., ITU)
- facilitate engagement by providing standards information, education, and to raise awareness among underrepresented stakeholders

USG NSSCET IMPLEMENTATION ROADMAP





Provides guiding principles of the NSSCET Implementation Roadmap

Recommends immediate actions to track and evaluate current Federal Department and Agency actions

Recommends immediate actions for Federal Departments and Agencies to identify opportunities for collaboration and use of lineitem budget submissions to address USG NSSCET goals

Recommends long-term actions that will result in broad Outcomes for sustained implementation

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www.nist.gov/standardsgov/usg-nss

The Standards Information
Center provides a gateway to
navigating the dynamic U.S. and
international standards
landscape



The USA Enquiry Point for the World Trade Organization (WTO)





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